TABLE OF CONTENTS

To Volume 68, May–August, 1971

ALLEN, SALLY LYMAN, A late-determined gene in Tetrahymena heterozygotes 415–433

ARMSTRONG, F. B., L. GLATZER and CHARLES G. ATKINS, Recombination involving the *ilv* cluster of *Salmonella typhimurium-Salmonella montevideo* hybrids 185–193

BERG, DOUGLAS E. and JONATHAN A. GALLANT, Tests of reciprocality in crossing over in partially diploid F′ strains of *Escherichia coli* 457–472

BLATHERWICK, CHARLES and CHRISTOPHER WILLS, The accumulation of genetic variability in yeast 547–557

CHAI, C. K., Analysis of the quantitative inheritance of body size in mice. VI. Diallel crosses between lines differing at a small number of loci 299–311

CHANG, SHU-TING and CHUN-CHUNG WAI, A dome morphological mutant linked to the *B* incompatibility factor of *Schizophyllum commune* 13–19

CHOOI, W. Y., Comparison of the DNA of six Vicia species by the method of DNA-DNA hybridization 213–230

CHOOI, W. Y., Variation in nuclear DNA content in the genus Vicia 195–211

CHOUREY, PREM S., Interallelic complementation at the *Sh*$_1$ locus in maize 435–442

COSTANTINO, ROBERT F., Genetic consequences of the couplet cytoplasmic pollen sterility and pollen migration 313–321

DATTA, R. K. and A. S. MUKHERJEE, Developmental genetics of the mutant combgap in *Drosophila melanogaster*. I. Effect on the morphology and chaetotaxy of the prothoracic leg 269–286

DE SERRES, FREDERICK J., Studies with purple adenine mutants in *Neurospora crassa*. VI. The effects of differences in genetic background on *ad-3A* × *ad-3B* crosses 383–400

DYER, K. F. and MARION J. LAMB, The effect of radiation on small competing populations of *Drosophila melanogaster*. IV. Changes in longevity 559–569

FELSENSTEIN, JOSEPH, Inbreeding and variance effective numbers in populations with overlapping generations 581–597

GRIFFING, B. and E. ZSIROS, Heterosis associated with genotype-environment interactions 443–455

HUANG, S. L., MADHO SINGH and KEN-ICHI KOJIMA, A study of frequency-dependent selection observed in the esterase-6 locus of *Drosophila melanogaster* using a conditioned media method 97–104

IRWIN, M. R., The evolution of two gene systems and of associated hybrid substances in Columbidae 509–526

ITOH, TATEO and JUN-ICHI TOMIZAWA, Inactivation of chromosomal fragments transferred from Hfr strains 1–11

JOHNSON, F. M., Isozyme polymorphisms in *Drosophila ananassae*: genetic diversity among island populations in the South Pacific 77–95

KLEIN, JAN and DONALD W. BAILEY, Histocompatibility differences in wild mice: further evidence for the existence of deme structure in natural populations of the house mouse 287–297

LANNAN, JAMES E., Experimental self-fertilization of the Pacific oyster, *Crassostrea gigas*, utilizing cryopreserved sperm 599–601

LEMONTT, JEFFREY F., Mutants of yeast defective in ultraviolet light-induced mutation 21–33

LOMOVSKAYA, N. D., L. K. EMELJANOVA and S. I. ALIKHANIAN, The genetic location of prophage on the chromosome of *Streptomyces coelicolor* 341–347

MACINTYRE, ROSS J., Evolution of acid phosphatase-1 in the genus Drosophila as estimated by subunit hybridization. I. Methodology 483–508

METZENBERG, ROBERT L., GREGORY S. CHEN and SANDRA K. AHLGREN, Reversion of aryl sulfataseless mutants of Neurospora 359–368

METZENBERG, ROBERT L. and SANDRA K. AHLGREN, Structural and regulatory control of aryl sulfatase in Neurospora: The use of interspecific differences in structural genes 369–381

MIZOBUCHI, K., G. C. ANDERSON and D. J. MCCORQUODALE, Abortive infection by bacteriophage BF23 due to the colicin Ib factor. I. Genetic studies of nonrestricted and amber mutants of bacteriophage BF23 323–340

MUKAI, TERUMI and TAKEO MARUYAMA, The genetic structure of natural populations of *Drosophila melanogaster*. IX. A prediction of genetic equilibrium 105–126

MURR, SANDRA M., and G. LEDYARD STEBBINS, An albino mutant in *Plantago insularis* requiring thiamine pyrophosphate. I. Genetics 231–243

NEI, MASATOSHI, Fertility excess necessary for gene substitution in regulated populations 169–184
OHTA, TOMOKO and MOTOO KIMURA, Linkage disequilibrium between two segregating nucleotide sites under steady flux of mutations in a finite population 571–580
PASZTOR, LINDA M., Unstable ring-*X* chromosomes derived from a tandem metacentric compound in *Drosophila melanogaster* 245–258
PRICE, H. J. and G. L. STEBBINS, The developmental genetics of the calcaroides gene in barley. II. Peroxidase activity in mutant and normal plants at progressive stages of development 539–546
PROUT, TIMOTHY, The relation between fitness components and population prediction in Drosophila. I. The estimation of fitness components 127–149
PROUT, TIMOTHY, The relation between fitness components and population prediction in Drosophila. II. Population prediction 151–167
SCHAAP, TAMAR and G. SIMCHEN, Genetic control of recombination affecting mating factors in a population of Schizophyllum, and its relation to inbreeding 67–75
SCHRÖDER, JOHANNES HORST, Attempt to determine the rate of radiation-induced recessive sex-linked lethal and detrimental mutations in immature germ cells of the house mouse (*Mus musculus*) 35–57
SCOWCROFT, W. R. and A. P. JAMES, The estimation of intra- and inter-allelic interaction affecting a quantitative character in yeast 59–66
STADLER, DAVID R. and AGNES M. TOWE, Evidence for meiotic recombination in Ascobolus involving only one member of a tetrad 401–413
STEBBINS, G. L. and H. J. PRICE, The developmental genetics of the calcaroides gene in barley. I. Divergent expression at the morphological and histological level 527–538
SUEOKA, NOBORU, The chromosome of *Bacillus subtilis*. II. A general solution for the age distribution function of bacterial chromosomes 349–358
SUMMERS, GREGORY A. and JOHN W. DRAKE, Bisulfite mutagenesis in bacteriophage T4 603–607
WELSHONS, W. J., Genetic basis for two types fo recessive lethality at the Notch locus of Drosophila 259–268
YU, SHIH-AN, M. KERRY GARRETT and ALFRED S. SUSSMAN, Genetic control of multiple forms of trehalase in *Neurospora crassa* 473–481